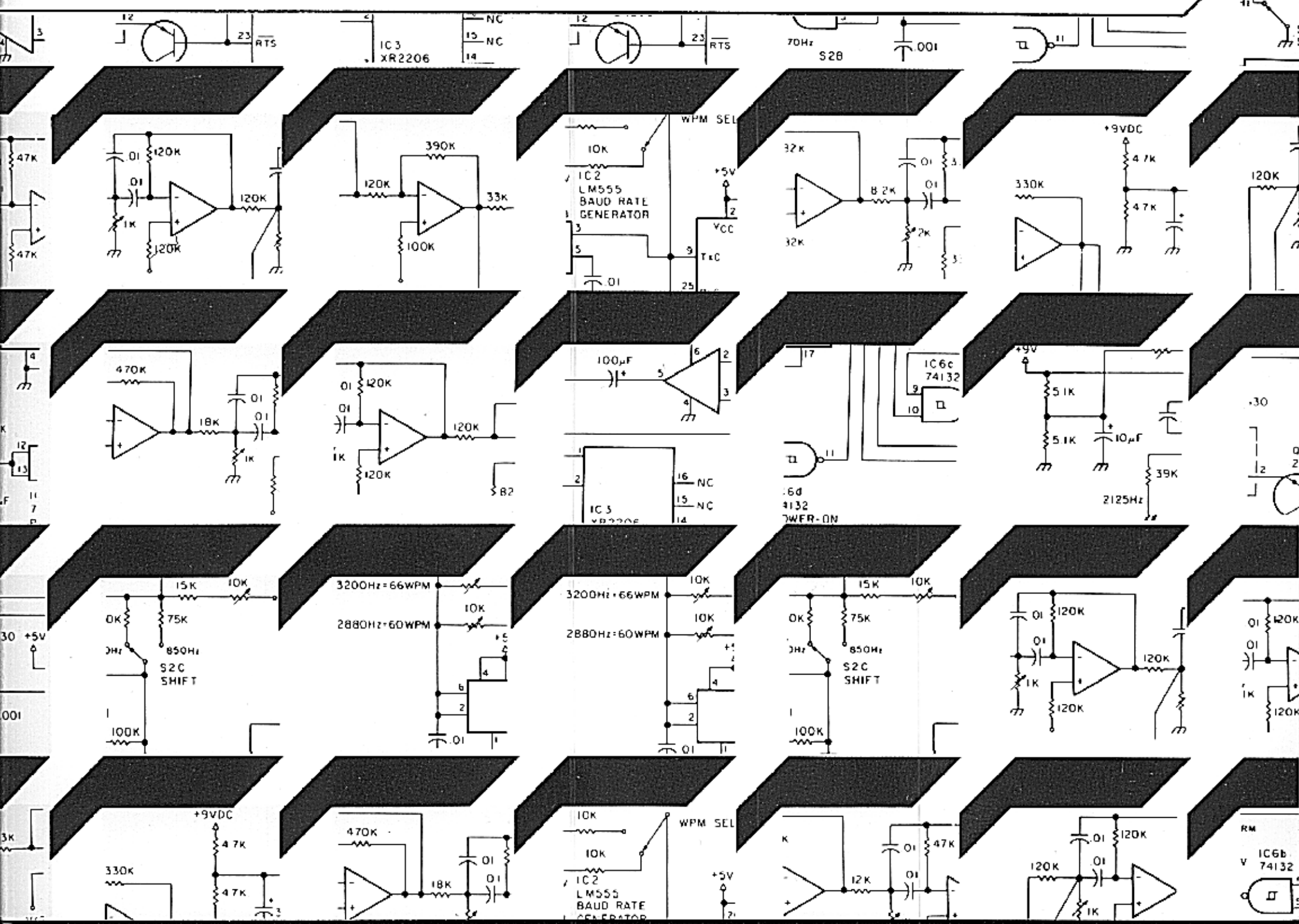


ENCYCLOPEDIA OF

ELECTRONIC CIRCUITS

VOLUME 1

RUDOLF F. GRAF



Contents

	Acknowledgments	vi
	Introduction	vii
	Common Schematic Symbols	viii
1	Alarms	1
2	Amateur Radio	14
3	Amplifiers	26
4	Analog-to-Digital Converters	43
5	Attenuators	51
6	Audio Mixers	54
7	Audio Oscillators	61
8	Audio Power Amplifiers	71
9	Audio Signal Amplifiers	83
10	Automotive	93
11	Battery Chargers	110
12	Battery Monitors	119
13	Buffers	125
14	Capacitance (Touch) Operated Circuits	129
15	Carrier Current Circuits	139
16	Comparators	147
17	Converters	158
18	Crossover Networks	171
19	Crystal Oscillators	174
20	Current Measuring Circuits	200
21	Current Sources and Sinks	204

22	Dc/dc and dc/ac Converters	207
23	Decoders	212
24	Delay Circuits	216
25	Detectors	221
26	Digital-to-Analog Converters	236
27	Dip Meters	245
28	Displays	249
29	Dividers	256
30	Drivers	260
31	Fiber Optic Circuits	267
32	Field Strength Meters	272
33	Filters	277
34	Flashers and Blinkers	298
35	Frequency Measuring Circuits	309
36	Frequency Multipliers	312
37	Frequency-to-Voltage Converters	315
38	Fuzz Circuits	319
39	Games	323
40	Gas/Vapor Detectors	331
41	Indicators	334
42	Infrared Circuits	340
43	Instrumentation Amplifiers	345
44	Light Activated Circuits	356
45	Light Controls	368
46	Light Measuring Circuits	381
47	Liquid Level Detectors	385
48	Logic Circuits	392
49	Measuring Circuits	396
50	Metal Detectors	407
51	Metronomes	410
52	Miscellaneous Circuits	414
53	Mixers and Multiplexers	424
54	Modulation Monitors	429
55	Modulators	432
56	Moisture and Rain Detectors	441
57	Motor Controls	444
58	Multivibrators	459
59	Noise Generators	466
60	Oscilloscope Circuits	470
61	Phase Sequence and Phase Shift Circuits	475

62	Photography Related Circuits	478
63	Power Measuring Circuits	486
64	Power Supplies (Fixed)	490
65	Power Supplies (Variable)	504
66	Power Supply Protection Circuits	514
67	Probes	519
68	Pulse Generators	528
69	Radiation Detectors	533
70	Ramp Generators	538
71	Receivers	541
72	Resistance and Continuity Measuring Circuits	548
73	RF Amplifiers	553
74	RF Oscillators	569
75	Remote Control Circuits	573
76	Safety and Security Circuits	578
77	Sample and Hold Circuits	584
78	Schmitt Triggers	591
79	Smoke and Flame Detectors	594
80	Sound Effect Circuits	597
81	Sound (Audio) Operated Circuits	607
82	Square Wave Oscillators	611
83	Stereo Balance Circuits	617
84	Switches	620
85	Telephone Related Circuits	624
86	Temperature Controls	637
87	Temperature Sensors	645
88	Timers	659
89	Tone Control Circuits	669
90	Transmitters	678
91	Ultrasonic Circuits	682
92	Video Amplifiers	686
93	Voltage and Current Sources and Reference Circuits	693
94	Voltage-Controlled Oscillators	700
95	Voltage-to-Frequency Converters	705
96	Voltmeters	709
97	Waveform and Function Generators	717
98	Zero Crossing Detectors	727
	Sources	730
	Index	749

Introduction

This volume of timely and practical circuits highlights the creative work of many people. Featured here are many circuits that appeared only briefly in some of our finer periodicals or limited-circulation publications. Also included are other useful and unique circuits from more readily available sources.

The source for each circuit is given in the sources section at the back of the book. The bold figure number that appears inside the box of each circuit is the key to the source. For example, the High Stability Voltage Reference circuit shown below is Fig. 93-10. If you turn to the Sources section and look for Fig. 93-10 you will find that Precision Monolithics supplied this circuit from p. 6-142 of their Full Line Catalog.

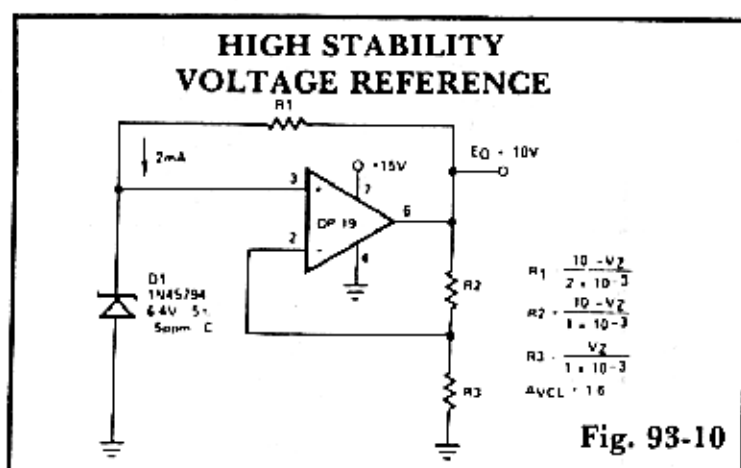


Fig. 93-9: Reprinted with the permission of National Semiconductor Corp. Transistor Databook, 1982, p. 11-25.

Fig. 93-10: Precision Monolithics Incorporated, 1981 Full Line Catalog, p. 6-142.

Fig. 93-11: Precision Monolithics Incorporated, 1981 Full Line Catalog, p. 10-18.

Many circuits are accompanied by a brief explanatory text. Those that do not have text can be readily understood from similar circuits in that chapter, or else they may be too complex to be explained briefly. The sparseness of text is deliberate so as to allow for more circuits which, after all, is what this book is all about.

The Index and Contents will be a time saver for the reader who knows exactly what he is looking for. The first page of each chapter lists the circuits in the order that they appear. The browser will surely discover many ideas and circuits that may well turn out to be most rewarding and great fun to put together.

The Common Schematic Symbols chart will help you identify circuit components.

"...A truly encyclopedic work, giving schematics that encompass virtually the entire spectrum of electronics technology... should make up a ready source to which to turn for just about any type of circuit you can imagine... a well worthwhile book to have handy..."

—Modern Electronics

"... Includes schematics for the latest electronic circuits from industry leaders... tightly organized... divided into more than 100 separate chapters and provides a meticulous index and extensive cross references..." —Popular Electronics

Never again will you have to spend hours—maybe days—searching for that particular audio power amplifier circuit, logic circuit, power supply or temperature-control circuit, or any other circuit you might need for just about any type of electronic project imaginable! No longer will you be forced to "guess" whether the circuit you've finally located will, in fact, do the job without time-consuming trial-and-error testing!

Now Rudolf Graf's *The Encyclopedia of Electronic Circuits* provides you with more than 750 detail-packed pages of the most-needed circuit schematics... nearly 1,300 in all! And this is much more than just a collection of schematics! Whenever extra information or clarification will add to the usefulness of the circuit, Graf has included clear, concise data on the circuit configuration and function... making your job even easier. Plus, this circuit encyclopedia has been carefully designed for the easiest possible use:

- Arranged alphabetically from A (alarm circuits) to Z (zero crossing detector circuits)!
- Conveniently divided into 98 basic circuit categories!
- Meticulously indexed to give you instant access to exactly the circuits you need each and every time!

This is the electronics hobbyist's and technician's dream treasury of both analog and digital circuits. Packed with ideas and answers for project builder and experimenters... it's also the ideal quick-reference for professionals who need fast, reliable answers to specific design problems. From amateur radio and automotive circuits to fiberoptic circuits, test circuits, radiation detector circuits, and video circuits... and with special emphasis on state-of-the-art IC circuit technology... absolutely nothing has been left out.

TAB Books

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Rudolf Graf, the author of this exceptional circuit collection, is a highly respected electronics professional and author, and a senior member of the IEEE. He believes that these circuits represent the best circuit ideas of today's electronics practice. To compile this encyclopedia, he turned to nearly 100 highly respected electronics sources to find the very best circuits for virtually every electronics purpose. The result: an invaluable reference tool for anyone involved in any area of electronics!